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Product no AS18 4195-1ml

Anti-Pectic polysaccharide, homogalacturonan (monoclonal, clone JIM7)

Product information

Immunogen	Pectic polysaccharide, Homogalacturonan,
Host	Rat
Clonality	Monoclonal
Subclass/isotype	IgA
Purity	Cell culture supernatant.
Format	Liquid
Quantity	1 ml
Storage	Store at +4°C (short term) and at -20°C (long term). Make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from any material adhering to the cap or sides of the tube.
Additional information	Contains 0.05% Sodium Azide Has no known cross-reactivity with other polymers. Binds to methyl esterified homogalacturonan. Does not bind to un-esterified homogalacturonan. This antibody is a good marker for pectic homogalacturonan.

Application information

Recommended dilution	1:10 (ELISA, IF)
Confirmed reactivity	Higher plants, ferns and mosses *Oryza sativa*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Acar and Çetinbaş-Genç (2026). Low-temperature stress modulates pollen tube growth through temperature-dependent multi-level regulatory mechanisms in Camellia sinensis.Plant Reprod. 2026 May 8;39(2):4. doi: 10.1007/s00497-026-00539-3. Han et al. (2026).The pectate lyase OsPSE1 mediates root cell-wall pectin turnover to regulate senescence in rice. Plant Physiology and Biochemistry Volume 234, May 2026, 111301. Niu et al. (2026). N-glycosylation profiles of apoplast nanoparticles modulate plant immune responses to different pathogens in Arabidopsis. J Integr Plant Biol. 2026 Feb 17. doi: 10.1111/jipb.70142. Albornos et al. (2025). Reduction of galactose side chains in type II arabinogalactan alters homogalacturonan methyl esterification in Arabidopsis thaliana seed coat mucilage.Planta. 2025 May 24;262(1):4. doi: 10.1007/s00425-025-04717-x. Li et al. (2023). Single-Cell Transcriptome Atlas and Regulatory Dynamics in Developing Cotton Anthers. Adv Sci (Weinh) . 2023 Nov 17:e2304017. doi: 10.1002/advs.202304017. Clausen et al. (2003). Synthetic methyl hexagalacturonate hapten inhibitors of anti-homogalacturonan monoclonal antibodies LM7, JIM5 and JIM7. Carbohydr Res. 003 Aug 12;338(17):1797-800.doi: 10.1016/s0008-6215(03)00272-6. Knox et al. (1990). Pectin esterification is spatially regulated both within cell walls and between developing tissues of root apices. Planta. 1990 Jul;181(4):512-21.doi: 0.1007/BF00193004.